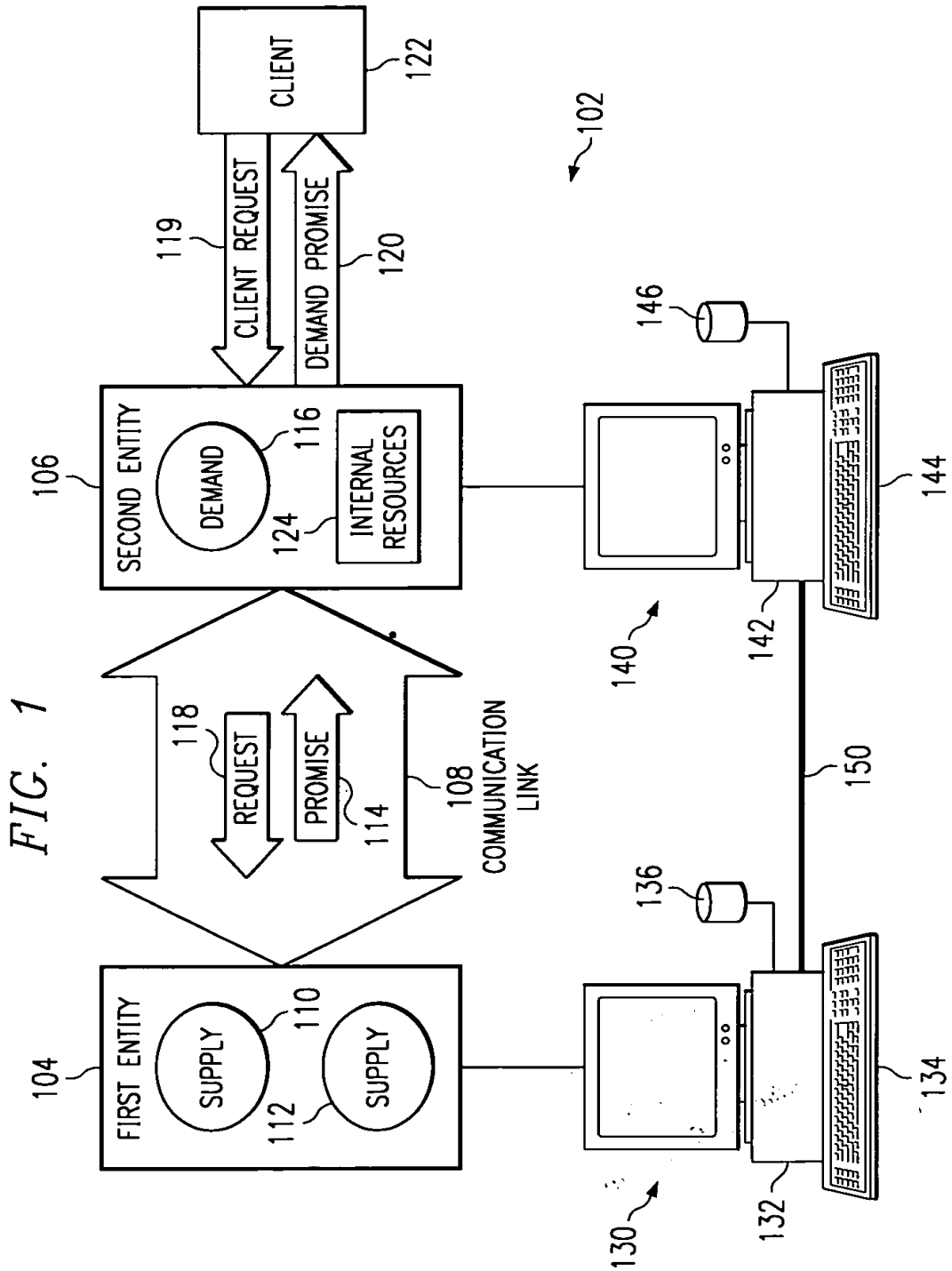

CLIENT
122
102
119
CLIENT REQUEST
DEMAND PROMISE
120
146
106
SECOND ENTITY
DEMAND
116
INTERNAL RESOURCES
124
144
140
142
118
REQUEST
PROMISE
114
108
COMMUNICATION LINK
150
136
104
FIRST ENTITY
SUPPLY
110
SUPPLY
112
134
130
132

FIG. 1

*FIG. 2*

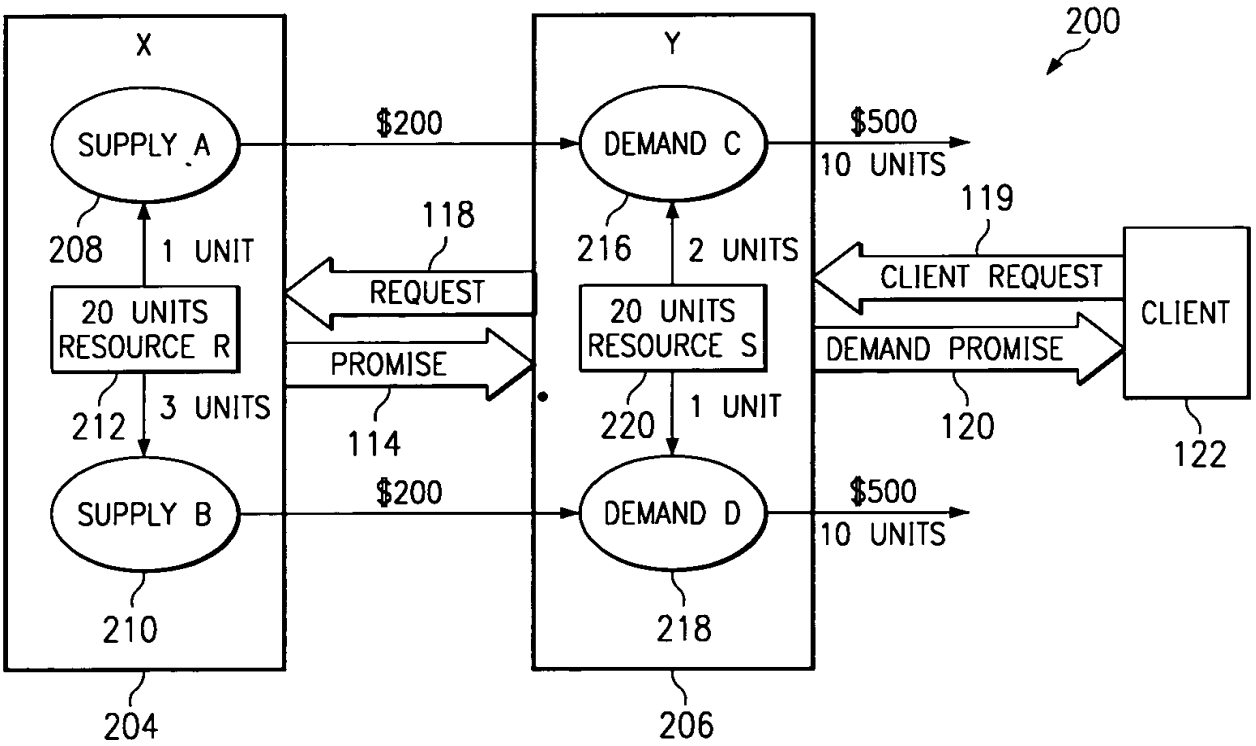

200
X
Y
SUPPLY A
$200
DEMAND C
$500
10 UNITS
208
1 UNIT
118
216
2 UNITS
119
REQUEST
CLIENT REQUEST
CLIENT
20 UNITS
RESOURCE R
20 UNITS
RESOURCE S
PROMISE
DEMAND PROMISE
212
3 UNITS
114
220
1 UNIT
120
122
SUPPLY B
$200
DEMAND D
$500
10 UNITS
210
218
204
206

FIG. 3

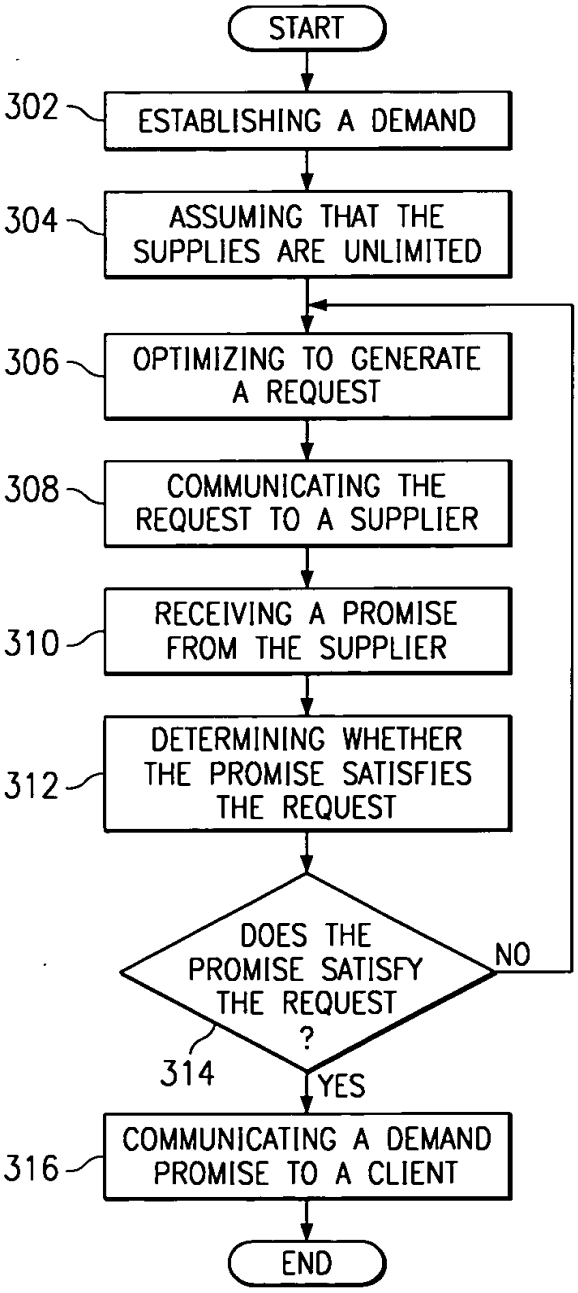
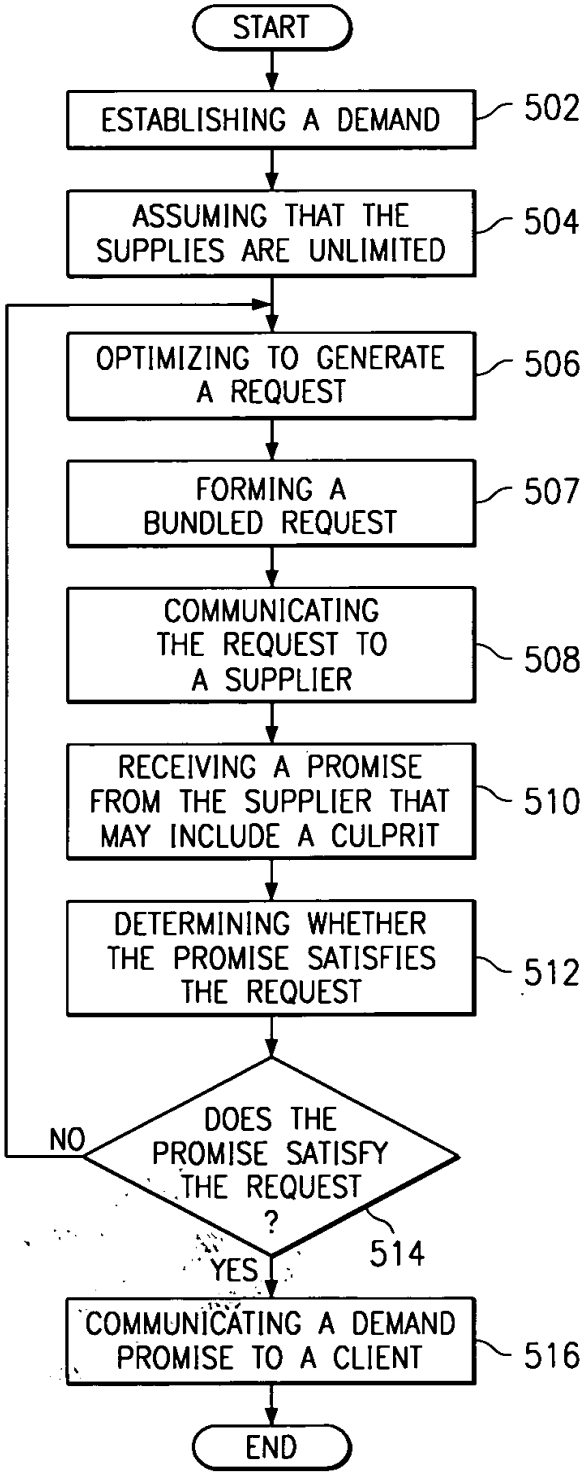

START
302
ESTABLISHING A DEMAND
304
ASSUMING THAT THE SUPPLIES ARE UNLIMITED
306
OPTIMIZING TO GENERATE A REQUEST
308
COMMUNICATING THE REQUEST TO A SUPPLIER
310
RECEIVING A PROMISE FROM THE SUPPLIER
312
DETERMINING WHETHER THE PROMISE SATISFIES THE REQUEST
DOES THE PROMISE SATISFY THE REQUEST ?
NO
314
YES
316
COMMUNICATING A DEMAND PROMISE TO A CLIENT
END

FIG. 5


START
ESTABLISHING A DEMAND
502
ASSUMING THAT THE SUPPLIES ARE UNLIMITED
504
OPTIMIZING TO GENERATE A REQUEST
506
FORMING A BUNDLED REQUEST
507
COMMUNICATING THE REQUEST TO A SUPPLIER
508
RECEIVING A PROMISE FROM THE SUPPLIER THAT MAY INCLUDE A CULPRIT
510
DETERMINING WHETHER THE PROMISE SATISFIES THE REQUEST
512
DOES THE PROMISE SATISFY THE REQUEST ?
NO
514
YES
COMMUNICATING A DEMAND PROMISE TO A CLIENT
516
END

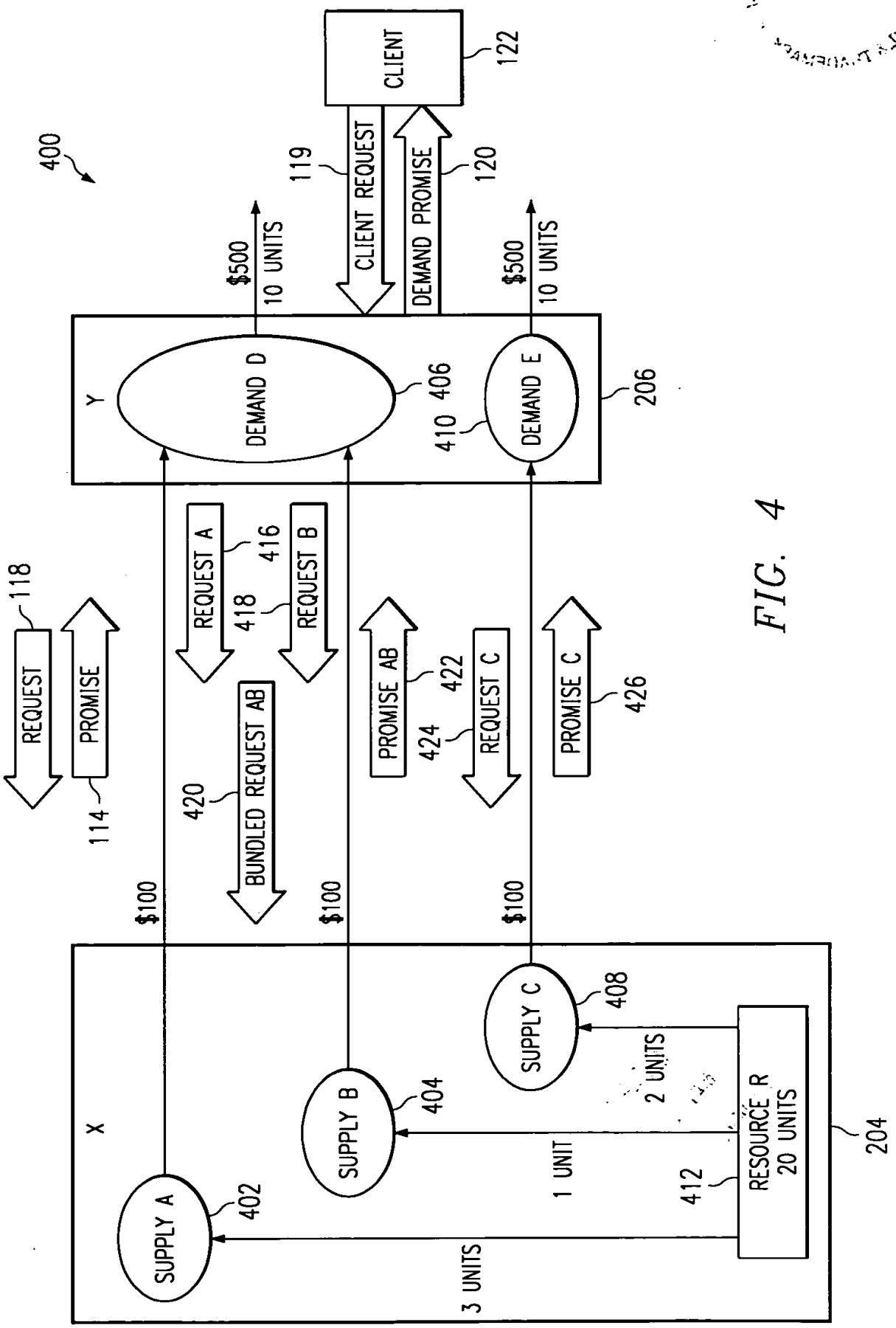

400
CLIENT
122
119
CLIENT REQUEST
DEMAND PROMISE
120
$500
10 UNITS
$500
10 UNITS
Y
DEMAND D
406
410
DEMAND E
206
REQUEST A
416
418
REQUEST B
118
REQUEST
PROMISE
114
BUNDLED REQUEST AB
420
PROMISE AB
422
424
REQUEST C
PROMISE C
426
$100
$100
$100
X
SUPPLY A
402
SUPPLY B
404
SUPPLY C
408
2 UNITS
1 UNIT
3 UNITS
412
RESOURCE R
20 UNITS
204

FIG. 4

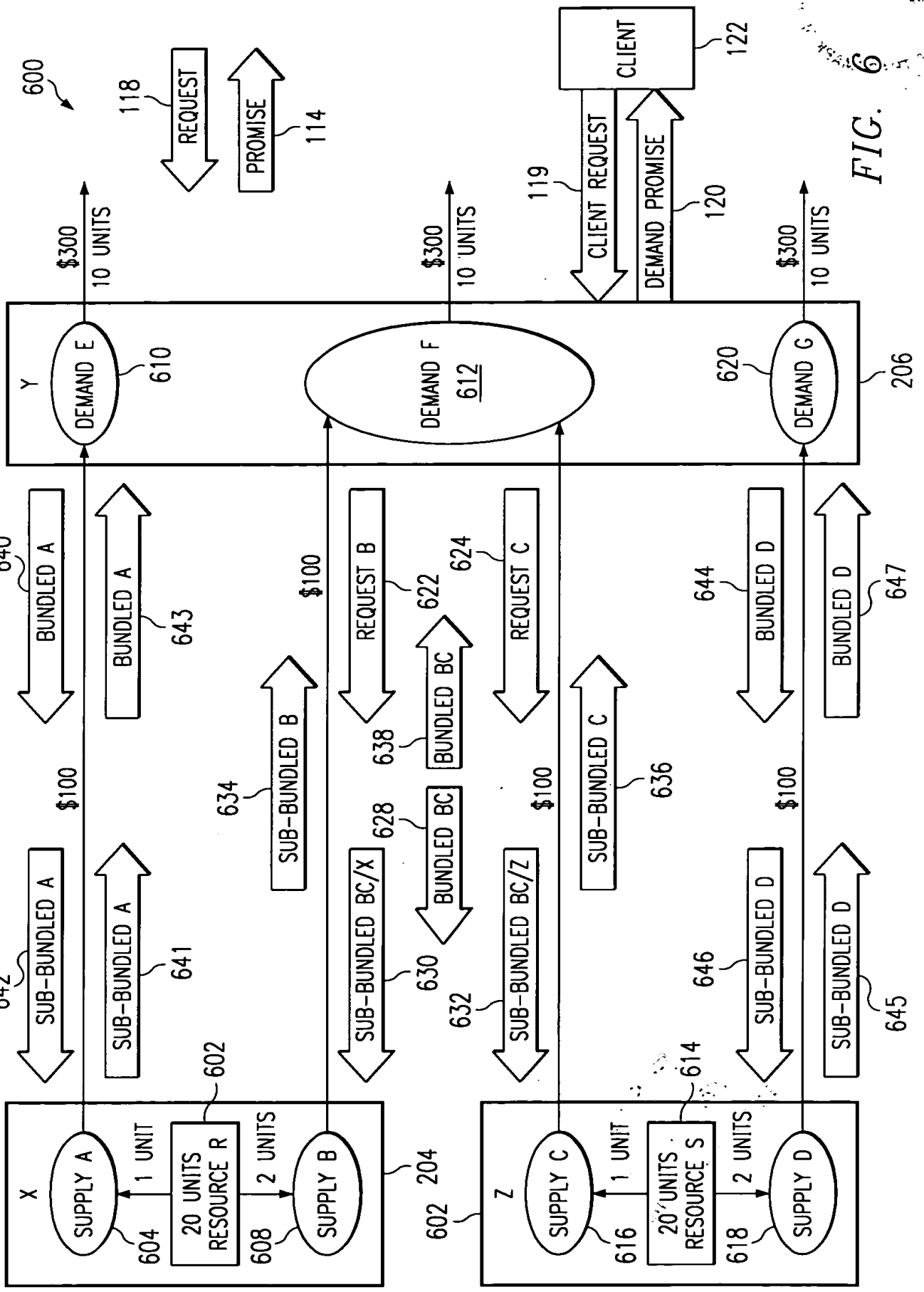
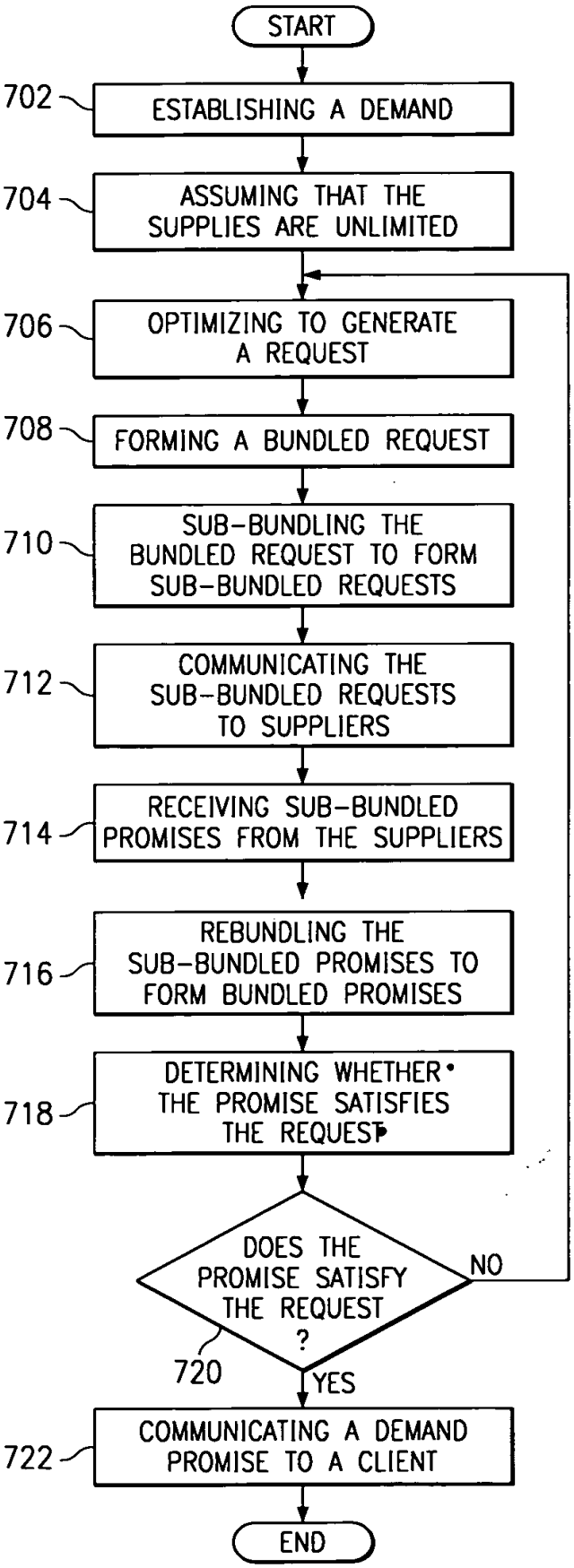

600
118
REQUEST
PROMISE
114
CLIENT
122
119
CLIENT REQUEST
DEMAND PROMISE
120
$300
10 UNITS
Y
DEMAND E
610
DEMAND F
612
620
DEMAND G
206
640
BUNDLED A
643
BUNDLED A
$100
REQUEST B
622
624
REQUEST C
644
BUNDLED D
647
BUNDLED D
634
SUB-BUNDLED B
638
BUNDLED BC
SUB-BUNDLED C
636
642
SUB-BUNDLED A
641
SUB-BUNDLED A
628
BUNDLED BC
630
SUB-BUNDLED BC/X
632
SUB-BUNDLED BC/Z
646
SUB-BUNDLED D
645
SUB-BUNDLED D
602
614
X
SUPPLY A
1 UNIT
20 UNITS
RESOURCE R
2 UNITS
SUPPLY B
204
Z
SUPPLY C
20 UNITS
RESOURCE S
SUPPLY D
604
608
616
618

FIG. 6

*FIG. 7*


START
702
ESTABLISHING A DEMAND
704
ASSUMING THAT THE SUPPLIES ARE UNLIMITED
706
OPTIMIZING TO GENERATE A REQUEST
708
FORMING A BUNDLED REQUEST
710
SUB-BUNDLING THE BUNDLED REQUEST TO FORM SUB-BUNDLED REQUESTS
712
COMMUNICATING THE SUB-BUNDLED REQUESTS TO SUPPLIERS
714
RECEIVING SUB-BUNDLED PROMISES FROM THE SUPPLIERS
716
REBUNDLING THE SUB-BUNDLED PROMISES TO FORM BUNDLED PROMISES
718
DETERMINING WHETHER THE PROMISE SATISFIES THE REQUEST
DOES THE PROMISE SATISFY THE REQUEST ?
NO
720
YES
722
COMMUNICATING A DEMAND PROMISE TO A CLIENT
END